

SAFETY DATA SHEET



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Boiler Pro 10**

Validation Date: 5/26/15

Company Identification:

U.S. Water Services

12270 43rd St NE

St. Michael, MN 55376 USA

Contact Information:

1-800-255-3924 (US & Canada Emergencies – CHEMTEL)

1-813-248-0585 (International Emergencies – CHEMTEL)

1-866-663-7632 (Non-emergency)

SDS@uswaterservices.com (email)

www.uswaterservices.com (web)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Oxidizing solids (Category 3), H272

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Dermal (Category 3), H311

Acute toxicity, Inhalation (Category 4), H332

Skin corrosion (Category 1B), H314

Eye damage (Category 1), H318

Carcinogenicity (Category 1B), H350

Reproductive toxicity (Category 2), H361

Acute aquatic toxicity (Category 1), H400

PICTOGRAM/SYMBOL:



SIGNAL WORD: DANGER

HAZARD STATEMENTS - LABEL ELEMENTS

Health Hazards Statement(s)

H301	Toxic if swallowed
H311	Toxic in contact with skin
H332	Harmful if inhaled
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life

Physical Hazards Statement(s)

H272	May intensify fire; oxidizer
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Precautionary Statement(s) - Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames, hot surfaces. - No smoking
P220	Keep/Store away from clothing, combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P264	Wash skin and contaminated clothing thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves, protective clothing, eye protection, face protection

P260 Do not breathe dust, fume, gas, mist, vapors, spray
P273 Avoid release to the environment

Precautionary Statement(s) - Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician
P361 Remove/Take off immediately all contaminated clothing.
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P308+P313 IF exposed or concerned: Get medical advice/attention
P391 Collect spillage

Precautionary Statement(s) - Storage

P405 Store locked up.

Precautionary Statement(s) - Disposal

P501 Dispose of contents/container in accordance with applicable local, regional, national, and/or international regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS Number	Weight %
Sodium Nitrite	7632-00-0	60-65
Sodium Hydroxide	1310-73-2	1-5
Cyclohexylamine	108-91-8	1-2
Diethylaminoethanol	100-37-8	1-2

>25% of mixture consists of ingredients of unknown toxicity. Exact percentages are withheld as trade secrets.

4. FIRST AID MEASURES

EYE CONTACT: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After 15 minutes check for and remove any contact lenses. Continue to rinse for at least 15 minutes.

SKIN CONTACT: Get medical attention immediately. Wash with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Destroy contaminated shoes.

INHALATION: Get medical aid immediately. Remove from exposure and move to fresh air immediately and keep in position comfortable for breathing. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

INGESTION: Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: Absorption of sodium nitrite into the body leads to the formation methemoglobin which, in sufficient concentration causes cyanosis.

5. FIRE FIGHTING MEASURES

NOTE: Solid product. Product will melt and combustion may occur when exposed to fire.

General information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. May react with reducing agents.

Extinguishing Media: Use agents appropriate for surrounding fire such as sand, dry chemical or foam. Do NOT use straight streams of water.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: Remove sources of ignition. Ventilate area. Use appropriate personal protective equipment as indicated in Section 8 of the SDS when risk assessment indicates this is necessary. Use non-sparking tools and equipment. Keep away from combustible materials such as paper or wood. Sweep or shovel spilled materials into suitable containers. Dispose of in accordance with all local, state and federal requirements. Do not allow product or residues to enter waterway or any source of drinking water.

7. HANDLING AND STORAGE

HANDLING: Use appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in the original container. Store and use away from heat, sparks, open flame or any other ignition source. Do not reuse container.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Do not store on wooden floors. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from reducing materials and acids. Keep container tightly closed and sealed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower (ANSI Z358.1). Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

COMPONENT	CAS NUMBER	ACGIH TWA	ACGIH STEL	ACGIH CEILING	OSHA FINAL PEL TWA	IDLH
Sodium Nitrite	7632-00-0	-	-	-	-	-
Sodium Hydroxide	1310-73-2	-	-	C 2 mg/m ³	2 mg/m ³	10mg/m ³
Diethylaminoethanol	100-37-8	2 ppm	-	-	10 ppm	-
Cyclohexylamine	108-91-8	10 ppm	-	-	-	-

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear chemical splash goggles that meet the requirements of 29 CFR 1910.133 or European Standard EN 166.

Skin: Wear appropriate protective gloves to prevent skin exposure(29CFR1910.138 or EN 374).

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Solid
ODOR:	Mild
ODOR THRESHOLD:	No data available
COLOR:	Off-white to Yellow
pH:	~11.4 @ 4%
FREEZING POINT:	No data available
BOILING POINT:	No data available
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMMABILITY:	No data available
FLAMMABILITY/EXPLOSIVE LIMIT:	No data available

AUTOIGNITION TEMPERATURE:	No data available
VAPOR PRESSURE:	No data available
VAPOR DENSITY:	No data available
DENSITY:	No data available
SOLUBILITY IN WATER:	Complete over time in water
PARTITION COEFFICIENT N-OCTANOL/WATER:	No data available
AUTOIGNITION TEMPERATURE:	No data available
DECOMPOSTION TEMPERATURE:	No data available

10. STABILITY AND REACTIVITY

STABILITY: The product is stable under normal conditions of storage and use. Sodium nitrite slowly oxidizes to sodium nitrate when exposed to air.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES: Reactive or incompatible with the following materials: reducing materials, acids, ammonium salts, organic matter, amines, cyanides, chlorates.

HAZARDOUS POLYMERIZATION: Under normal conditions of storage and use, hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sodium oxide, oxides of nitrogen (toxic and irritating).

11. TOXICOLOGICAL INFORMATION

TOXICITY: No data available for product.

CARCINOGENICITY

Product/Ingredient Name	ACGIH	IARC	NTP
Sodium Nitrite	-	2A	-

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL INFORMATION: No Data Available For Product.

13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. U.S. EPA guidelines for the classifications are listed in 40CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORTATION INFORMATION

U.S. DOT Bill of Lading Description: UN 3084, corrosive solids, oxidizing, n.o.s. (sodium hydroxide, sodium nitrite) 8 (5.1), II

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL).

U.S. REGULATIONS

CALIFORNIA PROPOSITION 65: None of the components of this product are listed.

STATE RIGHT TO KNOW (RTK)

INGREDIENT(S)	CAS#	MA	NJ	PA	MN
Sodium Nitrite	7632-00-0	X	X	X	-
Sodium Hydroxide	1310-73-2	X	X	X	X
Cyclohexylamine	108-91-8	X	X	X	X
Diethylaminoethanol	100-37-8	X	X	X	-
Polyphosphonic acid, sodium salt	68915-31-9	-	X	X	-

CERCLA/SARA 302

INGREDIENT(S)	CAS#	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)
Sodium Nitrite	7632-00-0	60-65	100	-
Sodium Hydroxide	1310-73-2	1-5	1000	-

SARA 311/312 Hazard Categories

Immediate:	X
Delayed:	X
Fire:	-
Reactivity:	X
Sudden Release of Pressure:	-

SARA 313:

This material contains sodium nitrite (CAS 7632-00-0), which is subject to the reporting requirements of SARA 313 title III and 40CFR Part 373.

Clean Air Act:

Not regulated.

Clean Water Act:

CAS No. 7632-00-2, 1310-73-2 are listed.

16. OTHER INFORMATION

Hazardous Material

Information System (U.S.A.)

Health: 3

Flammability: 0

Physical Hazard: 1

National Fire Protection

Association (U.S.A.)

Health: 3

Flammability: 0

Reactivity: 1

HMIS and NFPA use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of 0 means that the substance possesses essentially no hazard; a rating of 4 indicates high hazard.

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Date of Revision: 5/26/2015

Prepared By: Compliance Group

The information contained in this Safety Data Sheet is intended to comply with the requirements of 29CFR 1910.1200. This information is believed to be accurate and based on data available to APTECH Group at this time. It is intended to be used as a

guide to the safe handling and use by properly trained individuals. It is the end users responsibility to determine the suitability of the information for their particular purposes. This information is provided without warranty.